## Scenario Worksheet

## Practice and Scenario Description:

Information Type	Data	
Region	Delta States	
State	Louisiana	
Discipline Group	Agricultural Engineering	
Practice Code/Name	374 - Farmstead Energy Improvement	
Scenario ID	12	
Scenario Name	Motor Upgrade > 1 and < 10 HP	
Scenario Description	The typical scenario consists of replacing an existing electric motor used to drive agricultural production with a new, high efficiency motor. The motor size is large	a ventilation fan, irrigation pumps, vacuum pump, or similar equipment involved wit er than 1 and less than 10 horsepower.
Before Practice Situation	The system is inefficient with a standard efficiency motor.	·
After Practice Situation	AgEMP - HQ, and other activities within 374-Farmstead Energy Improvement. The	h use of a NEMA premium motor. Associated practices/activities may include: 122- he resource concern is inefficient use of energy in the farm operation which increase approved energy efficiency. Any improvements are based on a Type 2 energy audit
Scenario Feature Measure	Nameplate horsepower of motor	
Scenario Unit	Horse Power	
Scenario Typical Size	5	

## Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit		
Materials	\$777.25	\$155.45		
Equipment/Installation	\$0.00	\$0.00		
Labor	\$107.28	\$21.46		
Mobilization	\$0.00	\$0.00		
Acquisition of Technical Knowledge	\$0.00	\$0.00		
Foregone Income	\$0.00	\$0.00		
Total	\$884.53	\$176.91		

## Cost Details:

COSt Details:								
Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost	
			Premium NEMA approved electric motor, 5					
		Motor, electric, NEMA Premium, 5	Horsepower and all required appurtenances.					
Materials	1171	HP	Materials only.	Each	\$777.25	1	\$777.25	
			Labor requiring a high level skill set: Includes					
			carpenters, welders, electricians, conservation					
			professionals involved with data collection,					
Labor	230	Skilled Labor	monitoring, and or record keeping, etc.	Hour	\$26.82	4	\$107.28	